



COORDINATION CHEMISTRY REVIEWS, VOL. 211 (2001)

AUTHOR INDEX

- |                         |                           |                     |
|-------------------------|---------------------------|---------------------|
| Balzani, V., 97         | House, D.A., 45           | Rillema, D.P., 117  |
| Bitterwolf, T.E., 235   | Irwin, G., 25             | Robinson, W.T., 45  |
| Bocarsly, A.B., 177     | Juris, A., 97             | Rutenburg, I., 207  |
| Braden, D.A., 279       | Kane-Maguire, N.A.P., 145 | Shan, B.-Z., 117    |
| Crites Tears, D.K., 195 | Kassis, A., 207           | Striplin, D.R., 163 |
| Crosby, G.A., 163       | Kelly, C.A., 295          | Tyler, D.R., 279    |
| DeGraff, B.A., 317      | Kirk, A.D., 25            | Vogler, A., 223     |
| Demas, J.N., 317        | Kunkely, H., 223          | Wasgestian, F., 45  |
| Derwahl, A., 45         | Kutal, C., 353            | Watson, D.F., 177   |
| Eichhorn, D.M., 117     | Lees, A.J., 255           | Wheeler, J.F., 145  |
| Fan, J., 207            | Levi, C., 207             | Ye, G., 207         |
| Gafney, H.D., 207       | McMillin, D.R., 195       | Zhao, Q., 117       |
| Gonzales, M., 207       | Meyer, G.J., 295          | Zinato, E., 5       |
| Goswami, N., 117        | Parrack, E.E., 279        | Zink, J.I., 69      |
| Helmy, R., 207          | Ricciari, P., 5           |                     |
| Hicks, C., 207          |                           |                     |



## COORDINATION CHEMISTRY REVIEWS, VOL. 211 (2001)

### SUBJECT INDEX

#### Amines

The crystal structures and doublet emission properties of hexaam(m)ine Cr(III) complexes 45

#### Anation

Pentacyanochromate(III) complexes: ground- and excited-state chemistry 5

#### Barriers

Photophysical investigations of rhenium(I)Cl(CO)<sub>3</sub>(phenanthroline) complexes 163

#### Capillary electrophoresis

Photoredox behavior and chiral discrimination of DNA bound M(diimine)<sub>3</sub><sup>q+</sup> complexes (M = Ru<sup>2+</sup>, Cr<sup>3+</sup>) 145

#### Charge-transfer states

Exciplex quenching of photoexcited platinum(II) terpyridines: influence of the orbital parentage 195

#### Chloromercury(II)

The crystal structures and doublet emission properties of hexaam(m)ine Cr(III) complexes 45

#### Chromium

Pentacyanochromate(III) complexes: ground- and excited-state chemistry 5

#### Chromium(III)

Intermediates in chromium(III) photochemistry 25

The crystal structures and doublet emission properties of hexaam(m)ine Cr(III) complexes 45

#### Cyclopentadienyl carbonyl compounds

Mechanisms and intermediates in the photochemistry of M<sub>2</sub>(CO)<sub>6</sub>(η<sup>5</sup>-C<sub>5</sub>H<sub>5</sub>)<sub>2</sub>, where M = Cr, Mo and W, and their ring-coupled analogs 235

#### Cyclopentadienyl complexes

Electronic spectra and photoreactivity of cyclopentadienyl complexes 223

#### Dendrimers

Photochemistry and photophysics of Ru(II)-polypyridine complexes in the Bologna group. From early studies to recent developments 97

#### 3,3'-Dicarboxyl-2,2'-bipyridine ligand

Structure, NMR and other physical and photophysical properties of ruthenium(II) complexes containing the 3,3'-dicarboxyl-2,2'-bipyridine ligand 117

#### Diimine

Photoredox behavior and chiral discrimination of DNA bound M(diimine)<sub>3</sub><sup>q+</sup> complexes (M = Ru<sup>2+</sup>, Cr<sup>3+</sup>) 145

#### DNA

Photoredox behavior and chiral discrimination of DNA bound M(diimine)<sub>3</sub><sup>q+</sup> complexes (M = Ru<sup>2+</sup>, Cr<sup>3+</sup>) 145

#### Electrochemiluminescence

Photochemistry and photophysics of Ru(II)-polypyridine complexes in the Bologna group. From early studies to recent developments 97

#### Electronically excited states

Quantitative photochemistry of organometallic complexes: insight to their photophysical and photoreactivity mechanisms 255

#### Electronic coupling

The effects of electronic coupling and solvent broadening on the intervalent electron transfer of a centrosymmetric mixed-valence complex 177

#### Electronic spectra

Electronic spectra and photoreactivity of cyclopentadienyl complexes 223

## Electron-transfer processes

Photochemistry and photophysics of Ru(II)-polypyridine complexes in the Bologna group. From early studies to recent developments 97

## Exciplex quenching

Exciplex quenching of photoexcited platinum(II) terpyridines: influence of the orbital parentage 195

## Excited-state coordination

Excited-state acid–base chemistry of coordination complexes 207

## Excited state processes

Excited state processes at sensitized nanocrystalline thin film semiconductor interfaces 295

## Excited-state proton transfer

Excited-state acid–base chemistry of coordination complexes 207

## Excited states

Photophysical investigations of rhenium(I)Cl(CO)<sub>3</sub>(phenanthroline) complexes 163

## Group VI compounds

Mechanisms and intermediates in the photochemistry of  $M_2(CO)_6(\eta^5-C_5H_5)_2$ , where  $M = Cr, Mo$  and  $W$ , and their ring-coupled analogs 235

## Ligand-field theory

Photo-induced metal–ligand bond weakening, potential surfaces, and spectra 69

## Luminescence

Applications of luminescent transition platinum group metal complexes to sensor technology and molecular probes 317

Photophysical investigations of rhenium(I)Cl(CO)<sub>3</sub>(phenanthroline) complexes 163

Photoredox behavior and chiral discrimination of DNA bound  $M(diimine)_3^{2+}$  complexes ( $M = Ru^{2+}, Cr^{3+}$ ) 145

## Metal–ligand bond weakening

Photo-induced metal–ligand bond weakening, potential surfaces, and spectra 69

## Mixed-valence complex

The effects of electronic coupling and solvent broadening on the intervalent electron transfer of a centrosymmetric mixed-valence complex 177

## Molecular machines

Photochemistry and photophysics of

Ru(II)-polypyridine complexes in the Bologna group. From early studies to recent developments 97

## Molecular probes

Applications of luminescent transition platinum group metal complexes to sensor technology and molecular probes 317

## Molecular wires

Photochemistry and photophysics of Ru(II)-polypyridine complexes in the Bologna group. From early studies to recent developments 97

## Nanocrystalline

Excited state processes at sensitized nanocrystalline thin film semiconductor interfaces 295

## NMR

Structure, NMR and other physical and photophysical properties of ruthenium(II) complexes containing the 3,3'-dicarboxyl-2,2'-bipyridine ligand 117

## Orbital configurations

Photophysical investigations of rhenium(I)Cl(CO)<sub>3</sub>(phenanthroline) complexes 163

## Orbital parentage

Exciplex quenching of photoexcited platinum(II) terpyridines: influence of the orbital parentage 195

## Oxygen

Applications of luminescent transition platinum group metal complexes to sensor technology and molecular probes 317

## Pentacyanochromate(III) complexes

Pentacyanochromate(III) complexes: ground- and excited-state chemistry 5

## pH

Applications of luminescent transition platinum group metal complexes to sensor technology and molecular probes 317

## Phosphorescence

The crystal structures and doublet emission properties of hexaam(m)ine Cr(III) complexes 45

## Photoanation

Pentacyanochromate(III) complexes: ground- and excited-state chemistry 5

## Photoanion generation

Generation of bases and anions from inorganic and organometallic photoinitiators 353

- Photobase generation
  - Generation of bases and anions from inorganic and organometallic photoinitiators 353
- Photochemical mechanisms
  - Quantitative photochemistry of organometallic complexes: insight to their photophysical and photoreactivity mechanisms 255
- Photochemistry
  - Intermediates in chromium(III) photochemistry 25
  - Mechanisms and intermediates in the photochemistry of  $M_3(CO)_6(\eta^5-C_5H_5)_2$ , where  $M = Cr, Mo$  and  $W$ , and their ring-coupled analogs 235
  - Pentacyanochromate(III) complexes: ground- and excited-state chemistry 5
  - Photoredox behavior and chiral discrimination of DNA bound  $M(\text{diimine})_2^{4+}$  complexes ( $M = Ru^{2+}, Cr^{3+}$ ) 145
- Photoinitiation
  - Generation of bases and anions from inorganic and organometallic photoinitiators 353
- Photoinitiator
  - Generation of bases and anions from inorganic and organometallic photoinitiators 353
- Photophysical processes
  - Quantitative photochemistry of organometallic complexes: insight to their photophysical and photoreactivity mechanisms 255
- Photoreactivity
  - Electronic spectra and photoreactivity of cyclopentadienyl complexes 223
- Platinum(II) terpyridines
  - Exciplex quenching of photoexcited platinum(II) terpyridines: influence of the orbital parentage 195
- Polar radicals
  - Solvent cage effects. I. Effect of radical mass and size on radical cage pair recombination efficiency. II. Is geminate recombination of polar radicals sensitive to solvent polarity? 279
- Potential surfaces
  - Photo-induced metal–ligand bond weakening, potential surfaces, and spectra 69
- Radiationless transitions
  - Photophysical investigations of rhenium(I)- $Cl(CO)_3(\text{phenanthroline})$  complexes 163
- Radical cage pair recombination
  - Solvent cage effects. I. Effect of radical mass and size on radical cage pair recombination efficiency. II. Is geminate recombination of polar radicals sensitive to solvent polarity? 279
- Resonance raman
  - The effects of electronic coupling and solvent broadening on the intervalent electron transfer of a centrosymmetric mixed-valence complex 177
- Rhenium(I) complexes
  - Photophysical investigations of rhenium(I)- $Cl(CO)_3(\text{phenanthroline})$  complexes 163
- Ru(II) Diimines
  - Excited-state acid–base chemistry of coordination complexes 207
- Ruthenium(II) complexes
  - Structure, NMR and other physical and photophysical properties of ruthenium(II) complexes containing the 3,3'-dicarboxyl-2,2'-bipyridine ligand 117
- Sensors
  - Applications of luminescent transition platinum group metal complexes to sensor technology and molecular probes 317
- Solvent broadening
  - The effects of electronic coupling and solvent broadening on the intervalent electron transfer of a centrosymmetric mixed-valence complex 177
- Solvent cage effects
  - Solvent cage effects. I. Effect of radical mass and size on radical cage pair recombination efficiency. II. Is geminate recombination of polar radicals sensitive to solvent polarity? 279
- Solvent polarity
  - Solvent cage effects. I. Effect of radical mass and size on radical cage pair recombination efficiency. II. Is geminate recombination of polar radicals sensitive to solvent polarity? 279
- Spectroscopy
  - Photo-induced metal–ligand bond weakening, potential surfaces, and spectra 69
- Thin film semiconductor interfaces
  - Excited state processes at sensitized nanocrystalline thin film semiconductor interfaces 295
- Transition metal organometallic compounds
  - Quantitative photochemistry of organometallic complexes: insight to their photophysical and photoreactivity mechanisms 255
- Transition state
  - Intermediates in chromium(III) photochemistry 25



